

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits   | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|--------|---|--|------------------|---------|---------------------|
| L1    | 823142 | epox\$6 diepox\$6 triepox\$6<br>polyepox\$6 glycidyl\$ diglycidyl<br>\$ triglycidyl\$ tetraglycidyl\$<br>polyglycidyl\$                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/12/22<br>17:18 |
| L2    | 1725   | (solvent acetone) same<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate)) same L1  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/12/22<br>17:18 |
| L3    | 223    | (solvent acetone) with<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate)) with L1  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/12/22<br>17:18 |
| L4    | 35     | L3 and (exfoliat\$ agglomerat\$<br>deagglomerat\$)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/12/22<br>17:18 |
| L5    | 1081   | ((solvent acetone solution) with<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate))) and (L1 with<br>(solvent acetone solution)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/12/22<br>17:18 |
| L6    | 185    | L5 and (exfoliat\$ agglomerat\$<br>deagglomerat\$)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/12/22<br>17:18 |
| L7    | 115    | L5 and (exfoliat\$ agglomerat\$<br>deagglomerat\$) and (agglomerat<br>\$ deagglomerat\$)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/12/22<br>17:18 |
| L8    | 42172  | (fluid adj3 circuit)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/12/22<br>17:18 |
| L9    | 1      | (fluid adj3 circuit) and ((high<br>near3 pressure) with (high<br>near3 velocity)) and (pressure<br>near3 collapse)                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/12/22<br>17:18 |

|     |      |  |  |    |    |                     |
|-----|------|--|--|----|----|---------------------|
| L10 | 88   | (fluid adj3 circuit) and ((high near3 pressure) with (high near3 velocity)) and (pressure near3 drop)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L11 | 155  | (fluid adj3 circuit) and (((high increas\$5 high\$3) near3 pressure) with ((high increase\$5 high\$3) near3 velocity)) and (pressure near3 drop)                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L12 | 40   | (fluid adj3 circuit) and (((high increas\$5 high\$3) near3 pressure) with ((high increase\$5 high\$3) near3 velocity)) and (pressure near3 drop) and dispers\$5                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L13 | 1051 | (fluid adj3 circuit) and ((reduc\$4 restrict\$4 decreas\$4) with diameter) and (pressure near3 drop)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L14 | 4    | (fluid adj3 circuit) and ((reduc\$4 restrict\$4 decreas\$4) with diameter) and (pressure near3 drop) and (agglomerat\$ deagglomerat\$)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L15 | 58   | (fluid adj3 circuit) and ((reduc\$4 restrict\$4 decreas\$4) with diameter) and (pressure near3 drop) and (obstacle)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L16 | 56   | (fluid adj3 circuit) and ((reduc\$4 restrict\$4 decreas\$4) with diameter) and (pressure near3 drop) and ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L17 | 5410 | dispersion and ((reduc\$4 restrict\$4 decreas\$4) with diameter) and (pressure near3 (drop reduc\$4)) and ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L18 | 1717 | ((reduc\$4 restrict\$4 decreas\$4) with diameter) same (pressure near3 (drop reduc\$4)) same ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$))              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |

|     |      |  |  |    |    |                     |
|-----|------|--|--|----|----|---------------------|
| L19 | 893  | ((reduc\$4 restrict\$4 decreas\$4) with diameter) same (pressure near3 (drop reduc\$4)) same ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$)) and (dispers\$)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L20 | 6    | ((reduc\$4 restrict\$4 decreas\$4) with diameter) same (pressure near3 (drop reduc\$4)) same ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$)) and (dispers\$) and exfoliat\$   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L21 | 303  | ((apparatus device circuit) same ((reduc\$4 restrict\$4 decreas\$4) with diameter) same (pressure near3 (drop reduc\$4)) same ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$)))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L22 | 86   | ((apparatus device circuit) same ((reduc\$4 restrict\$4 decreas\$4) near5 diameter) same (pressure near3 (drop reduc\$4)) same ((particle particulate agglomerate) near5 (reduc\$4 break\$4 deagglomerat\$)))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L23 | 2468 | ((apparatus device circuit) with (fluid flow)) and ((reduc\$4 restrict\$4 decreas\$4) near5 diameter) and (pressure near3 (drop reduc\$4)) and ((particle particulate agglomerate) near5 (reduc\$4 break\$4 deagglomerat\$))                               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L24 | 175  | ((apparatus device circuit) with (fluid flow)) and (((reduc\$4 restrict\$4 decreas\$4) near5 diameter) same pressure same velocity) and (pressure near3 (drop reduc\$4)) and ((particle particulate agglomerate) near5 (reduc\$4 break\$4 deagglomerat\$)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L25 | 9396 | microfluidiz\$ nanofluidiz\$   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L26 | 3    | L5 and L25   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |

|     |       |   |  |    |    |                     |
|-----|-------|---|--|----|----|---------------------|
| L27 | 510   | (solvent acetone solution) and (organoclay clay nanoclay (layer \$4 near2 silicate)) and L1 and L25     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L28 | 30    | (solvent acetone solution) and ((organoclay clay nanoclay (layer\$4 near2 silicate)) same L1) and L25   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L29 | 49    | ((solvent acetone solution) with (organoclay clay nanoclay (layer \$4 near2 silicate))) and L1 and L25  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L30 | 5     | ((solvent acetone solution) same (organoclay clay nanoclay (layer \$4 near2 silicate)) same L25) and L1 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L31 | 2     | us-20030026888-\$.did.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L32 | 1     | L24 and L31   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L33 | 3     | "4533254".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L34 | 2     | "4908154".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L35 | 22    | hoa-v\$.in. hoa-v\$-\$.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L36 | 15674 | liu-w\$.in. liu-w\$-\$.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |

|     |        |  |  |    |    |                     |
|-----|--------|--|--|----|----|---------------------|
| L37 | 118    | pugh-m\$.in. pugh-m\$-\$.in.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L38 | 5161   | ton\$5-m\$.in. ton\$5-m\$-\$.in.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L39 | 20958  | L35 L36 L37 L38  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L40 | 5      | L5 and L39   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L41 | 1627   | 523/440.ccls. 523/443.ccls.<br>523/466.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L42 | 539    | 366/341.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L43 | 61914  | L41 L42 "366"/\$.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| L44 | 22     | L5 and L43   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/12/22<br>17:18 |
| S25 | 496814 | silicone polysiloxane<br>polyorganosiloxane<br>polydiorganosiloxane<br>organopolysiloxane<br>organosiloxane<br>diorganopolysiloxane siloxane<br>organosilicone | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/14<br>09:00 |
| S26 | 317795 | curative hardener (cross adj2<br>linker) crosslinker ((curing<br>hardening (cross adj2 linking)<br>crosslinking) adj2 (agent<br>promoter))                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/28<br>14:33 |

|     |         |   |  |    |    |                     |
|-----|---------|---|--|----|----|---------------------|
| S27 | 1222941 | amine amino diamine diamino<br>triamine triamino polyamine<br>polyamino   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/12<br>13:13 |
| S28 | 605176  | epox\$6 diepox\$6 triepox\$6<br>polyepox\$6 glycidyl\$ diglycidyl<br>\$ triglycidyl\$ tetraglycidyl\$<br>polyglycidyl\$ | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/14<br>09:01 |
| S31 | 777467  | epox\$6 diepox\$6 triepox\$6<br>polyepox\$6 glycidyl\$ diglycidyl<br>\$ triglycidyl\$ tetraglycidyl\$<br>polyglycidyl\$ | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:01 |
| S32 | 34749   | (clay nanoclay (layer\$4 near2<br>silicate)) with (solvent solution)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:03 |
| S33 | 3513    | (clay nanoclay (layer\$4 near2<br>silicate)) with S31   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:03 |
| S34 | 691     | S32 and S33   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:03 |
| S35 | 950     | flow with (microcircuit ((micro<br>micrometer) near5 circuit))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:04 |
| S36 | 201731  | flow with (cell microcircuit<br>((micro micrometer) near5<br>circuit))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:04 |
| S37 | 1       | S34 and S35   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:05 |
| S38 | 7       | S34 and S36   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:05 |

|     |       |  |  |    |    |                     |
|-----|-------|--|--|----|----|---------------------|
| S39 | 1576  | pressure with velocity with (shear shear\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:06 |
| S40 | 6     | S34 and S39  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:07 |
| S42 | 41544 | (organoclay clay nanoclay (layer \$4 near2 silicate)) with (solvent solution slurry)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:21 |
| S43 | 3536  | (organoclay clay nanoclay (layer \$4 near2 silicate)) with S31   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:22 |
| S44 | 744   | S42 and S43  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:22 |
| S45 | 9     | S44 and S39  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:22 |
| S46 | 4     | ("4664842" "5110501").pn.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>10:33 |
| S47 | 28    | ("4739007"   "4810734"   "4889885"   "5164440"   "5385776"   "5554670"   "5663111"   "5728764"   "5780376").PN. OR ("6271298").URPN. | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2010/02/24<br>11:01 |

|     |     |   |                           |    |    |                     |
|-----|-----|---|---------------------------|----|----|---------------------|
| S48 | 221 | ("20010056149" I<br>"20020002230" I "2367384" I<br>"2531396" I "2531427" I<br>"2531440" I "2531812" I<br>"2552775" I "2622987" I<br>"2658869" I "2739067" I<br>"2750296" I "2754219" I<br>"2767177" I "2795545" I<br>"2883356" I "2885360" I<br>"2966506" I "3027322" I<br>"3084117" I "3125547" I<br>"3136819" I "3252757" I<br>"3471439" I "3537994" I<br>"3567680" I "3573944" I<br>"3586478" I "3666407" I<br>"3671190" I "3687846" I<br>"3691070" I "3764456" I<br>"3779933" I "3804656" I<br>"3839389" I "3843591" I<br>"3855147" I "3915867" I<br>"3951850" I "3954943" I<br>"3974125" I "3977894" I<br>"3988287" I "4033764" I<br>"4040974" I "4049780" I<br>"4053493" I "4060518" I<br>"4081496" I "4087365" I<br>"4105578" I "4116866" I<br>"4190686" I "4216135" I<br>"4240951" I "4251576" I<br>"4290935" I "4291154" I<br>"4314919" I "4314929" I<br>"4315828" I "4339391" I<br>"4341565" I "4349389" I<br>"4365030" I "4382868" I<br>"4386010" I "4391637" I<br>"4410364" I "4412018" I<br>"4431755" I "4434075" I<br>"4434076" I "4444714" I<br>"4450095" I "4454237" I<br>"4454244" I "4455382" I<br>"4462470" I "4464274" I<br>"4465542" I "4470912" I<br>"4472538" I "4473477" I<br>"4473675" I "4480060" I<br>"4500668" I "4508628" I<br>"4517094" I "4528104" I<br>"4528304" I "4549966" I<br>"4552712" I "4558075" I<br>"4569923" I "4600515" I<br>"4620993" I "4623398" I<br>"4631091" I "4640716" I<br>"4659760" I "4664842" I<br>"4690868" I "4695402" I<br>"4724098" I "4739007" I<br>"4743305" I "4743306" I<br>"4753974" I "4775586" I<br>"4786558" I "4789403" I<br>"4804703" I "4810734" I<br>"4876030" I "4889885" I<br>"4990405" I "5061744" I | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/02/24<br>11:01 |
|-----|-----|---|---------------------------|----|----|---------------------|

|     |     |  |                           |    |    |                     |
|-----|-----|--|---------------------------|----|----|---------------------|
|     |     | "5089200"   "5102948"  <br>"5110501"   "5151155"  <br>"5160454").PN. OR ("5164433"<br>  "5164440"   "5164460"  <br>"5188064"   "5248641"  <br>"5248720"   "5310775"  <br>"5334241"   "5376604"  <br>"5385776"   "5391228"  <br>"5464472"   "5514734"  <br>"5552469"   "5554670"  <br>"5574179"   "5576257"  <br>"5578672"   "5616286"  <br>"5663111"   "5700319"  <br>"5718841"   "5728764"  <br>"5735943"   "5739087"  <br>"5780376"   "5785749"  <br>"5786417"   "5798324"  <br>"5837654"   "5882662"  <br>"5883173"   "5900309"  <br>"5905109"   "5916863"  <br>"5919863"   "5955535"  <br>"5962553"   "5969029"  <br>"5977050"   "5989331"  <br>"6025303"   "6034163"  <br>"6036765"   "6037315"  <br>"6060549"   "6074474"  <br>"6084019"   "6087016"  <br>"6113891"   "6124245"  <br>"6133374"   "6136241"  <br>"6147151"   "6153572"  <br>"6162857"   "6187719"  <br>"6221831"   "6225374"  <br>"6271298"   "6287634"  <br>"6287992"   "6407155").PN.<br>OR ("6730719").URPN. |                           |    |    |                     |
| S49 | 219 | ("2367384"   "2531396"  <br>"2531427"   "2531440"  <br>"2531812"   "2552775"  <br>"2622987"   "2658869"  <br>"2739067"   "2750296"  <br>"2754219"   "2767177"  <br>"2795545"   "2883356"  <br>"2885360"   "2966506"  <br>"3027322"   "3084117"  <br>"3125547"   "3227675"  <br>"3252757"   "3290165"  <br>"3471439"   "3509066"  <br>"3537994"   "3567680"  <br>"3573944"   "3666407"  <br>"3671190"   "3687846"  <br>"3691070"   "3764456"  <br>"3804656"   "3839389"  <br>"3843591"   "3844978"  <br>"3844979"   "3852405"  <br>"3855147"   "3915867"  <br>"3951850"   "3974125"  <br>"3977894"   "3988287"  <br>"4033764"   "4033893"  <br>"4040974"   "4060518"  <br>"4081496"   "4087365"   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/02/24<br>11:02 |

"4105578" | "4116866" |  
"4190686" | "4216135" |  
"4216188" | "4240951" |  
"4251576" | "4290935" |  
"4291154" | "4314919" |  
"4314929" | "4339391" |  
"4341565" | "4349389" |  
"4365030" | "4382868" |  
"4386010" | "4391637" |  
"4410364" | "4412018" |  
"4431755" | "4434075" |  
"4434076" | "4444714" |  
"4450095" | "4454237" |  
"4455382" | "4462470" |  
"4464274" | "4465542" |  
"4470912" | "4472538" |  
"4473477" | "4473675" |  
"4480060" | "4500668" |  
"4508628" | "4517094" |  
"4528104" | "4528304" |  
"4552712" | "4558075" |  
"4569923" | "4600515" |  
"4620993" | "4623398" |  
"4631091" | "4640716" |  
"4659760" | "4664842" |  
"4690868" | "4695402" |  
"4724098" | "4739007" |  
"4743305" | "4743306" |  
"4753974" | "4775586" |  
"4786558" | "4789403" |  
"4804703" | "4810734" |  
"4830843" | "4876030" |  
"4889885" | "4990405" |  
"5061744" | "5089200" |  
"5102948" | "5110501" |  
"5114895" | "5151155" |  
"5160454" | "5164433" |  
"5164440").PN. OR ("5164460"  
| "5188064" | "5248641" |  
"5248720" | "5310775" |  
"5328590" | "5334241" |  
"5376604" | "5385776" |  
"5391228" | "5429999" |  
"5464472" | "5514734" |  
"5552469" | "5554670" |  
"5574179" | "5576257" |  
"5578672" | "5616286" |  
"5663111" | "5700319" |  
"5718841" | "5728764" |  
"5735943" | "5739087" |  
"5780376" | "5785749" |  
"5786417" | "5837654" |  
"5843862" | "5882662" |  
"5883173" | "5900309" |  
"5916863" | "5955535" |  
"5962553" | "5969029" |  
"5989331" | "6025295" |  
"6025303" | "6034163" |  
"6036765" | "6037315" |  
"6060549" | "6074474" |

|     |      |   |  |    |    |                     |
|-----|------|---|--|----|----|---------------------|
|     |      | "6084019"   "6087016"  <br>"6113891"   "6123962"  <br>"6124245"   "6162857"  <br>"6221831"   "6225374"  <br>"6287634"   "6287992"  <br>"6380295"   "6407155").PN.<br>OR ("6787592").URPN. |  |    |    |                     |
| S50 | 263  | S47 S48 S49   | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2010/02/24<br>11:02 |
| S51 | 19   | (pinnavaia-\$\$.in. pinnavaia-\$\$.<br>in.) and S31 and (organoclay<br>clay nanoclay (layer\$4 near2<br>silicate))  | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2010/02/24<br>11:05 |
| S52 | 2061 | manton adj2 gaulin  | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2010/02/24<br>11:07 |
| S53 | 125  | S52 and S31 and (organoclay<br>clay nanoclay (layer\$4 near2<br>silicate))  | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2010/02/24<br>11:07 |
| S54 | 425  | S44 and ((organoclay clay<br>nanoclay (layer\$4 near2<br>silicate)) with (solvent))   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:25 |
| S55 | 11   | (pinnavaia-\$\$.in. pinnavaia-\$\$.<br>in.) and S54   | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2010/02/24<br>11:26 |
| S56 | 337  | (organoclay clay nanoclay (layer<br>\$4 near2 silicate)) with (solvent<br>solution) with S31  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:29 |
| S57 | 176  | S56.ab.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:29 |
| S58 | 22   | S56 and ((organoclay clay<br>nanoclay (layer\$4 near2<br>silicate)) with (solvent<br>solution)).clm.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:32 |
| S59 | 278  | S31 and ((organoclay clay<br>nanoclay (layer\$4 near2<br>silicate)) with (solvent<br>solution)).clm.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:34 |
| S60 | 123  | S31 and ((organoclay clay<br>nanoclay (layer\$4 near2<br>silicate)) with (solvent<br>solution)).clm. and (S31 same<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate)))           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:34 |

|     |      |   |  |    |    |                     |
|-----|------|---|--|----|----|---------------------|
| S61 | 1    | S31 and ((organoclay clay nanoclay (layer\$4 near2 silicate)) with (solvent solution)).clm. and (S31 same (organoclay clay nanoclay (layer\$4 near2 silicate))) and feely   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:42 |
| S62 | 1    | S31 and ((organoclay clay nanoclay (layer\$4 near2 silicate)) with (solvent solution)) and (S31 same (organoclay clay nanoclay (layer\$4 near2 silicate))) and feely  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:42 |
| S63 | 5    | S31 and ((organoclay clay nanoclay (layer\$4 near2 silicate)) with (solvent solution)) and feely  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:43 |
| S64 | 3    | S56 and (S39 S52)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:49 |
| S65 | 3162 | ((organoclay clay nanoclay (layer\$4 near2 silicate)) same (solvent solution) same S31) ((organoclay clay nanoclay (layer\$4 near2 silicate)).ab. and (solvent solution).ab. and S31.ab.)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:50 |
| S66 | 8    | S65 and (S39 S52)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:50 |
| S67 | 4722 | ((organoclay clay nanoclay (layer\$4 near2 silicate)) same (solvent solution slurry water aqueous) same S31) ((organoclay clay nanoclay (layer\$4 near2 silicate)).ab. and (solvent solution slurry water aqueous).ab. and S31.ab.) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:53 |
| S68 | 9    | S67 and (S39 S52)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:53 |
| S69 | 115  | S67 and (S39 S52 homogeniser homogenizer)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:53 |

|     |      |   |  |    |    |                     |
|-----|------|---|--|----|----|---------------------|
| S70 | 34   | S67 and (S39 S52 (pressure near5 (homogeniser homogenizer)))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>11:54 |
| S71 | 67   | (organoclay clay nanoclay (layer \$4 near2 silicate)) with (solvent solution slurry water aqueous) with sonicat\$               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>13:03 |
| S72 | 32   | S31 and S71   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>13:03 |
| S73 | 145  | (organoclay clay nanoclay (layer \$4 near2 silicate)) same (solvent solution slurry water aqueous) same sonicat\$               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>13:11 |
| S74 | 46   | S31 and S73   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>13:11 |
| S75 | 3841 | (organoclay clay nanoclay (layer \$4 near2 silicate)) same (solvent solution slurry water aqueous) same homogeneous             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>13:26 |
| S76 | 472  | S31 and S75   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>13:27 |
| S77 | 730  | (organoclay clay nanoclay (layer \$4 near2 silicate)) with (solvent solution slurry water aqueous) with homogeneous             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>13:27 |
| S78 | 791  | (organoclay clay nanoclay (layer \$4 near2 silicate)) with (solvent solution slurry water aqueous) with (homogeneous sonicat\$) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>13:27 |
| S79 | 148  | S31 and S78   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>13:27 |

|     |        |  |  |    |    |                     |
|-----|--------|--|--|----|----|---------------------|
| S80 | 777467 | epox\$6 diepox\$6 triepox\$6<br>polyepox\$6 glycidyl\$ diglycidyl<br>\$ triglycidyl\$ tetraglycidyl\$<br>polyglycidyl\$                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>16:49 |
| S81 | 791    | (organoclay clay nanoclay (layer<br>\$4 near2 silicate)) with (solvent<br>solution slurry water aqueous)<br>with (homogeneous sonicat\$) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>16:49 |
| S82 | 148    | S80 and S81  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>16:49 |
| S83 | 2      | us-20070299202-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/24<br>18:09 |
| S84 | 2      | us-20070299202-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>09:47 |
| S85 | 1      | S84 and (micrometer near5<br>circuit)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>09:48 |
| S86 | 1      | S84 and (micrometer near3<br>range)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:12 |
| S87 | 2      | S84 and (clay with exfoliat\$)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:19 |
| S88 | 2      | S84 and (agglomerate with<br>diameter)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:21 |
| S89 | 2      | S84 and (fracture and<br>viscoelastic and strain)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:23 |

|     |   |  |  |    |    |                     |
|-----|---|--|--|----|----|---------------------|
| S90 | 1 | S84 and (loading same "k1c" same "g1c")  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:25 |
| S91 | 1 | S84 and (loading and "k1c" and "g1c")  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:26 |
| S92 | 2 | S84 and (loading)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:26 |
| S93 | 1 | S84 and "k.sub.1c"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:28 |
| S94 | 1 | S84 and "k.sub.1c" and "g.sub.1c"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:29 |
| S95 | 2 | S84 and (barrier with absorption with flammability)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:31 |
| S96 | 2 | S84 and (stability)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:34 |
| S97 | 2 | S84 and (pristine with clay)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:36 |
| S98 | 2 | S84 and aircraft   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:40 |
| S99 | 2 | S84 and aircraft and automobile and sport and adhesive and sealant and wood and coatings and pipe and boat and reservoir | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:41 |

|      |        |   |  |    |    |                     |
|------|--------|---|--|----|----|---------------------|
| S100 | 83801  | (organoclay clay nanoclay (layer \$4 near2 silicate)) with (solvent solution slurry water aqueous)                      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:47 |
| S101 | 778041 | epox\$6 diepox\$6 triepox\$6<br>polyepox\$6 glycidyl\$ diglycidyl<br>\$ triglycidyl\$ tetraglycidyl\$<br>polyglycidyl\$ | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:48 |
| S102 | 9452   | S100 and S101   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:48 |
| S103 | 3550   | (organoclay clay nanoclay (layer \$4 near2 silicate)) same<br>(solvent solution slurry water aqueous) same S101         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:48 |
| S104 | 201    | S103 and (S101 near5 rubber)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:49 |
| S105 | 10     | pinnavaia and (S101 near5<br>rubber) and (organoclay clay<br>nanoclay (layer\$4 near2<br>silicate))                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>10:53 |
| S106 | 156    | (S101 near5 rubber).ab. and<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate)).ab.                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>11:29 |
| S107 | 22     | hoa-v\$.in. hoa-v\$-\$.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:03 |
| S108 | 12191  | liu-w\$.in. liu-w\$-\$.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:04 |
| S109 | 113    | pugh-m\$.in. pugh-m\$-\$.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:04 |

|      |       |   |  |    |    |                     |
|------|-------|---|--|----|----|---------------------|
| S110 | 0     | tonthat-m\$.in. tonthat-m\$-\$.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:04 |
| S111 | 4907  | ton\$5-m\$.in. ton\$5-m\$-\$.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:05 |
| S112 | 2     | S107 and S108 and S109 and<br>S111  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:05 |
| S113 | 17219 | S107 S108 S109 S111   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:06 |
| S114 | 22    | S113 and solvent and<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate)) and S101                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:07 |
| S115 | 2     | S113 and solvent.clm. and<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate)).clm. and<br>S101.clm. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:09 |
| S116 | 1584  | 523/440.ccls. 523/443.ccls.<br>523/466.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:10 |
| S117 | 532   | 366/341.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:20 |
| S118 | 61323 | S116 S117 "366"/\$.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:20 |
| S119 | 1664  | (solvent acetone) same<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate)) same S101                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:21 |

|      |    |   |  |    |    |                     |
|------|----|---|--|----|----|---------------------|
| S120 | 31 | S118 and S119   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:21 |
| S121 | 57 | ("4465797" "4664842"<br>"4687796" "4983672"<br>"5439746" "5505895"<br>"5514734" "5747557"<br>"5747560" "5840796"<br>"6040350" "6107387"<br>"6174967" "6287992"<br>"6384121" "6391449"<br>"6407155" "6500892"<br>"6579588" "20020055581"<br>"20020058739" "20020086908"<br>"20020098309" "20020107318"<br>"20020119266" "20020137834"<br>"20020143094" "20020165305"<br>"20030039812").pn. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:28 |
| S122 | 16 | ep-325058-\$.did. ep-441047-\$.<br>did. ep-755415-\$.did. ep-<br>785971-\$.did. ep-890616-\$.did.<br>ep-899300-\$.did. ep-1038913-\$.<br>did. ep-1141136-\$.did. ep-<br>1312582-\$.did. ep-228234-\$.<br>did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:32 |
| S123 | 11 | wo-9311190-\$.did. wo-<br>9506090-\$.did. wo-9611238-\$.<br>did. wo-9810012-\$.did. wo-<br>0098540-\$.did. wo-02079301-\$.<br>did. wo-02096982-\$.did. wo-<br>02024759-\$.did. wo-03066737-<br>\$.did. wo-200098540-\$.did. wo-<br>2002079301-\$.did. wo-<br>2002096982-\$.did. wo-<br>2002024759-\$.did. wo-<br>2003066737-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:34 |
| S124 | 0  | wo-020079301-\$.did. wo-<br>020096982-\$.did. wo-<br>020024759-\$.did. wo-<br>030066737-\$.did. wo-<br>2000098540-\$.did. wo-<br>20020079301-\$.did. wo-<br>20020096982-\$.did. wo-<br>20020024759-\$.did. wo-<br>20030066737-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:37 |
| S125 | 1  | wo-0279301-\$.did. wo-<br>0296982-\$.did. wo-0224759-\$.<br>did. wo-0366737-\$.did. wo-<br>200098540-\$.did. wo-<br>200279301-\$.did. wo-<br>200296982-\$.did. wo-<br>200224759-\$.did. wo-<br>200366737-\$.did.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:38 |

|      |        |   |  |    |    |                     |
|------|--------|---|--|----|----|---------------------|
| S126 | 0      | wo-0098540-\$.did. wo-200098540-\$.did. wo-00098540-\$.did. wo-2000098540-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:39 |
| S127 | 1      | wo-0078540-\$.did. wo-200078540-\$.did. wo-00078540-\$.did. wo-2000078540-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:40 |
| S128 | 27     | ("4743306" "4983672"<br>"5478885" "6040350"<br>"6251980" "6417262"<br>"7166656" "5514734"<br>"5962553" "7049353"<br>"20050027040" "6914095"<br>"6639025").pn. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:47 |
| S129 | 92     | (S121 S122 S123 S124 S125<br>S126 S127 S128)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:48 |
| S130 | 8      | S119 and S129   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/25<br>12:48 |
| S131 | 798713 | epox\$6 diepox\$6 triepox\$6<br>polyepox\$6 glycidyl\$ diglycidyl<br>\$ triglycidyl\$ tetraglycidyl\$<br>polyglycidyl\$                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>10:43 |
| S132 | 1697   | (solvent acetone) same<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate)) same S131  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>10:43 |
| S133 | 212    | (solvent acetone) with<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate)) with S131  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>10:44 |
| S134 | 33     | S133 and (exfoliat\$ agglomerat<br>\$ deagglomerat\$)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>10:46 |
| S135 | 1042   | ((solvent acetone solution) with<br>(organoclay clay nanoclay (layer<br>\$4 near2 silicate)))) and (S131<br>with (solvent acetone solution))                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>10:51 |

|      |       |   |  |    |    |                     |
|------|-------|---|--|----|----|---------------------|
| S136 | 170   | S135 and (exfoliat\$ agglomerat\$ deagglomerat\$)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>10:51 |
| S137 | 107   | S135 and (exfoliat\$ agglomerat\$ deagglomerat\$) and (agglomerat\$ deagglomerat\$)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>10:51 |
| S138 | 41149 | (fluid adj3 circuit)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:01 |
| S139 | 1     | (fluid adj3 circuit) and ((high near3 pressure) with (high near3 velocity)) and (pressure near3 collapse)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:03 |
| S140 | 86    | (fluid adj3 circuit) and ((high near3 pressure) with (high near3 velocity)) and (pressure near3 drop)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:04 |
| S141 | 151   | (fluid adj3 circuit) and (((high increas\$5 high\$3) near3 pressure) with ((high increase\$5 high\$3) near3 velocity)) and (pressure near3 drop)                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:08 |
| S142 | 37    | (fluid adj3 circuit) and (((high increas\$5 high\$3) near3 pressure) with ((high increase\$5 high\$3) near3 velocity)) and (pressure near3 drop) and dispers\$5 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:08 |
| S143 | 1018  | (fluid adj3 circuit) and ((reduc\$4 restrict\$4 decreas\$4) with diameter) and (pressure near3 drop)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:19 |
| S144 | 3     | (fluid adj3 circuit) and ((reduc\$4 restrict\$4 decreas\$4) with diameter) and (pressure near3 drop) and (agglomerat\$ deagglomerat\$)                          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:19 |
| S145 | 56    | (fluid adj3 circuit) and ((reduc\$4 restrict\$4 decreas\$4) with diameter) and (pressure near3 drop) and (obstacle)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:20 |

|      |      |  |  |    |    |                     |
|------|------|--|--|----|----|---------------------|
| S146 | 51   | (fluid adj3 circuit) and ((reduc\$4 restrict\$4 decreas\$4) with diameter) and (pressure near3 drop) and ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:27 |
| S147 | 5104 | dispersion and ((reduc\$4 restrict\$4 decreas\$4) with diameter) and (pressure near3 (drop reduc\$4)) and ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$))                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:31 |
| S148 | 1671 | ((reduc\$4 restrict\$4 decreas\$4) with diameter) same (pressure near3 (drop reduc\$4)) same ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:32 |
| S149 | 865  | ((reduc\$4 restrict\$4 decreas\$4) with diameter) same (pressure near3 (drop reduc\$4)) same ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$)) and (dispers\$)                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:32 |
| S150 | 6    | ((reduc\$4 restrict\$4 decreas\$4) with diameter) same (pressure near3 (drop reduc\$4)) same ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$)) and (dispers\$) and exfoliat\$                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:34 |
| S151 | 301  | ((apparatus device circuit) same ((reduc\$4 restrict\$4 decreas\$4) with diameter) same (pressure near3 (drop reduc\$4)) same ((particle particulate agglomerate) with (reduc\$4 break\$4 deagglomerat\$)))                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:36 |
| S152 | 85   | ((apparatus device circuit) same ((reduc\$4 restrict\$4 decreas\$4) near5 diameter) same (pressure near3 (drop reduc\$4)) same ((particle particulate agglomerate) near5 (reduc\$4 break\$4 deagglomerat\$)))                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:37 |
| S153 | 2331 | ((apparatus device circuit) with (fluid flow)) and ((reduc\$4 restrict\$4 decreas\$4) near5 diameter) and (pressure near3 (drop reduc\$4)) and ((particle particulate agglomerate) near5 (reduc\$4 break\$4 deagglomerat\$)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:56 |

|      |      |   |  |    |    |                     |
|------|------|---|--|----|----|---------------------|
| S154 | 171  | ((apparatus device circuit) with (fluid flow)) and (((reduc\$4 restrict\$4 decreas\$4) near5 diameter) same pressure same velocity) and (pressure near3 (drop reduc\$4)) and ((particle particulate agglomerate) near5 (reduc\$4 break\$4 deagglomerat \$)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>11:58 |
| S155 | 8980 | microfluidiz\$ nanofluidiz\$  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>12:26 |
| S156 | 1    | S135 and S155   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>12:26 |
| S157 | 491  | (solvent acetone solution) and (organoclay clay nanoclay (layer \$4 near2 silicate)) and S131 and S155  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>12:27 |
| S158 | 28   | (solvent acetone solution) and ((organoclay clay nanoclay (layer\$4 near2 silicate)) same S131) and S155  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>12:28 |
| S159 | 47   | ((solvent acetone solution) with (organoclay clay nanoclay (layer \$4 near2 silicate))) and S131 and S155   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>12:30 |
| S160 | 5    | ((solvent acetone solution) same (organoclay clay nanoclay (layer \$4 near2 silicate)) same S155) and S131  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>12:34 |
| S161 | 2    | us-20030026888-\$.did.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>12:36 |
| S162 | 1    | S154 and S161   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>12:36 |
| S163 | 2    | "4533254".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>12:42 |

|      |       |  |  |    |    |                     |
|------|-------|--|--|----|----|---------------------|
| S164 | 2     | "4908154".pn.                                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>12:50 |
| S165 | 22    | hoa-v\$.in. hoa-v\$-\$.in.                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>13:14 |
| S166 | 13746 | liu-w\$.in. liu-w\$-\$.in.                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>13:14 |
| S167 | 115   | pugh-m\$.in. pugh-m\$-\$.in.                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>13:14 |
| S168 | 5013  | ton\$5-m\$.in. ton\$5-m\$-\$.in.             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>13:14 |
| S169 | 18882 | S165 S166 S167 S168                          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>13:14 |
| S170 | 5     | S135 and S169                                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>13:15 |
| S171 | 1603  | 523/440.ccls. 523/443.ccls.<br>523/466.ccls. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>13:30 |
| S172 | 535   | 366/341.ccls.                                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>13:30 |
| S173 | 61612 | S171 S172 "366"/\$.ccls.                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>13:30 |

|      |    |               |  |    |    |                     |
|------|----|---------------|--|----|----|---------------------|
| S174 | 19 | S135 and S173 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/07/13<br>13:30 |
|------|----|---------------|--|----|----|---------------------|

**12/22/10 5:25:50 PM**

**C:\Documents and Settings\mfeely\My Documents\EAST\Workspaces\10596750.wsp**